

FIG. 1

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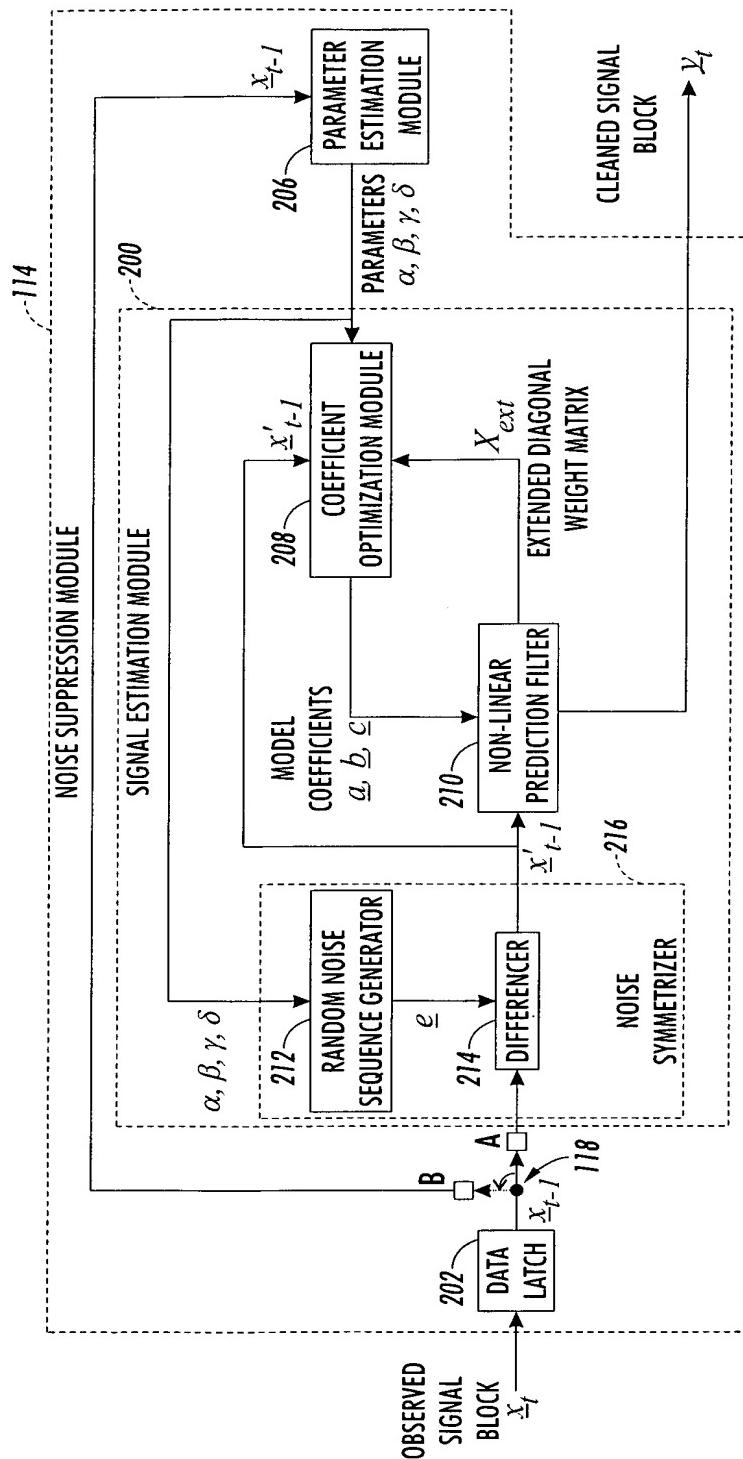


FIG. 2



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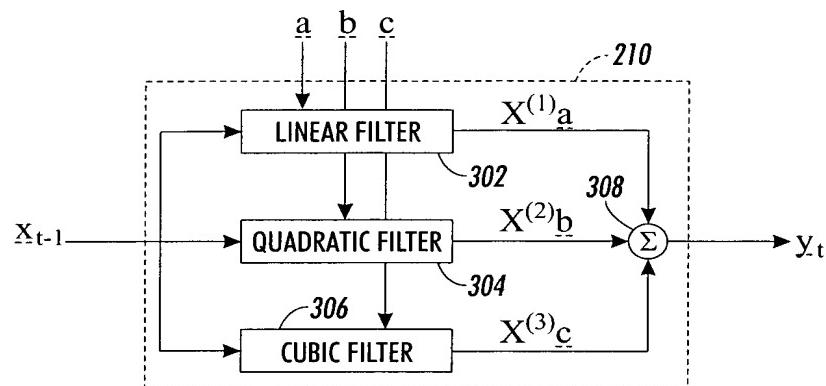


FIG. 3

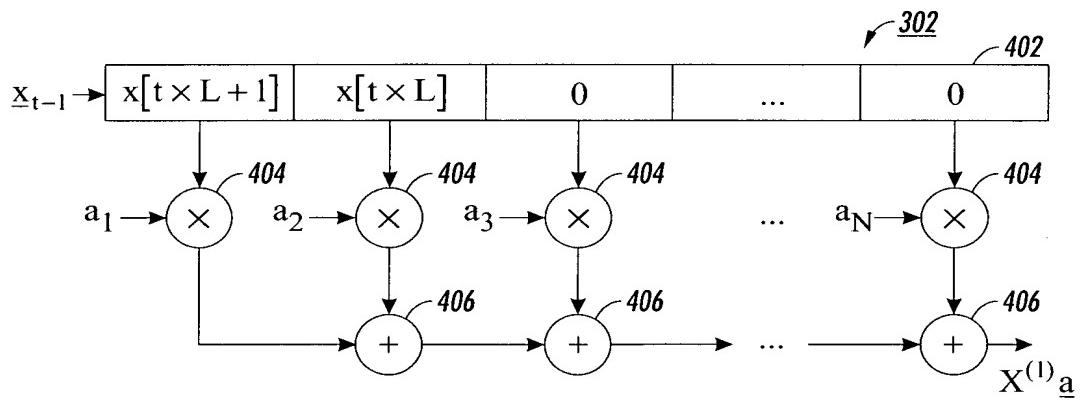


FIG. 4



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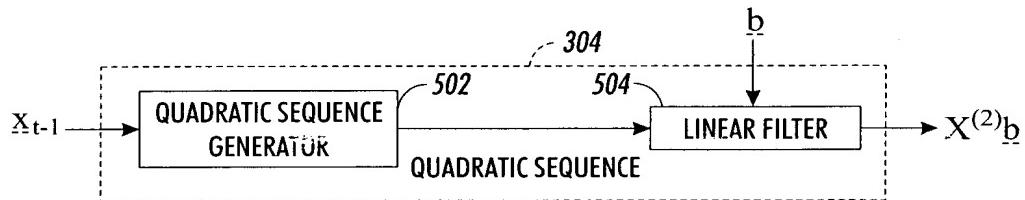


FIG. 5

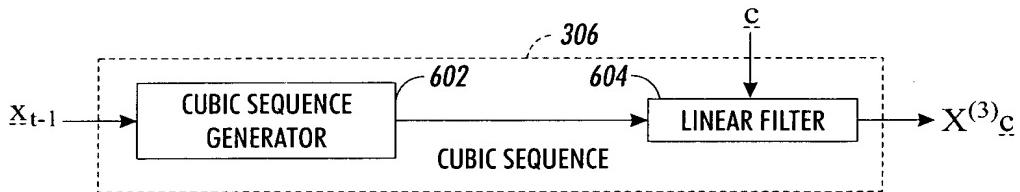


FIG. 6



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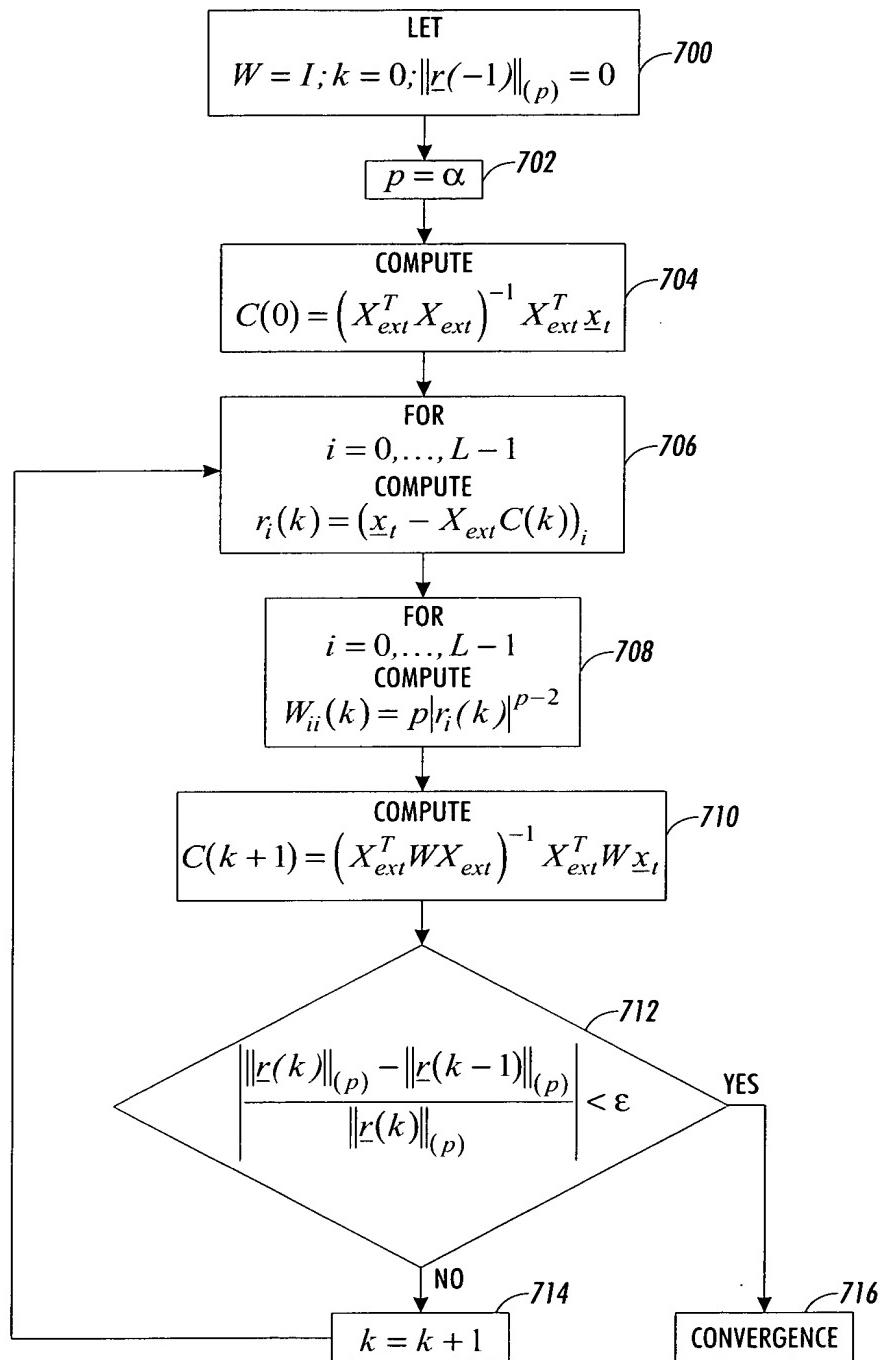


FIG. 7



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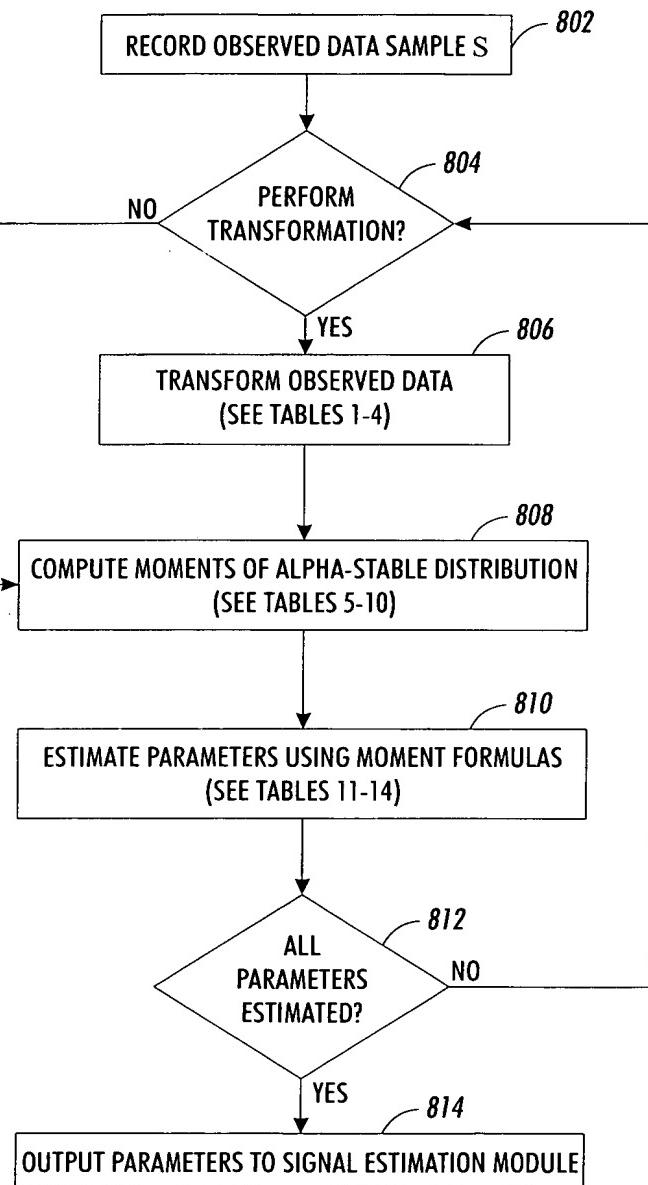


FIG. 8



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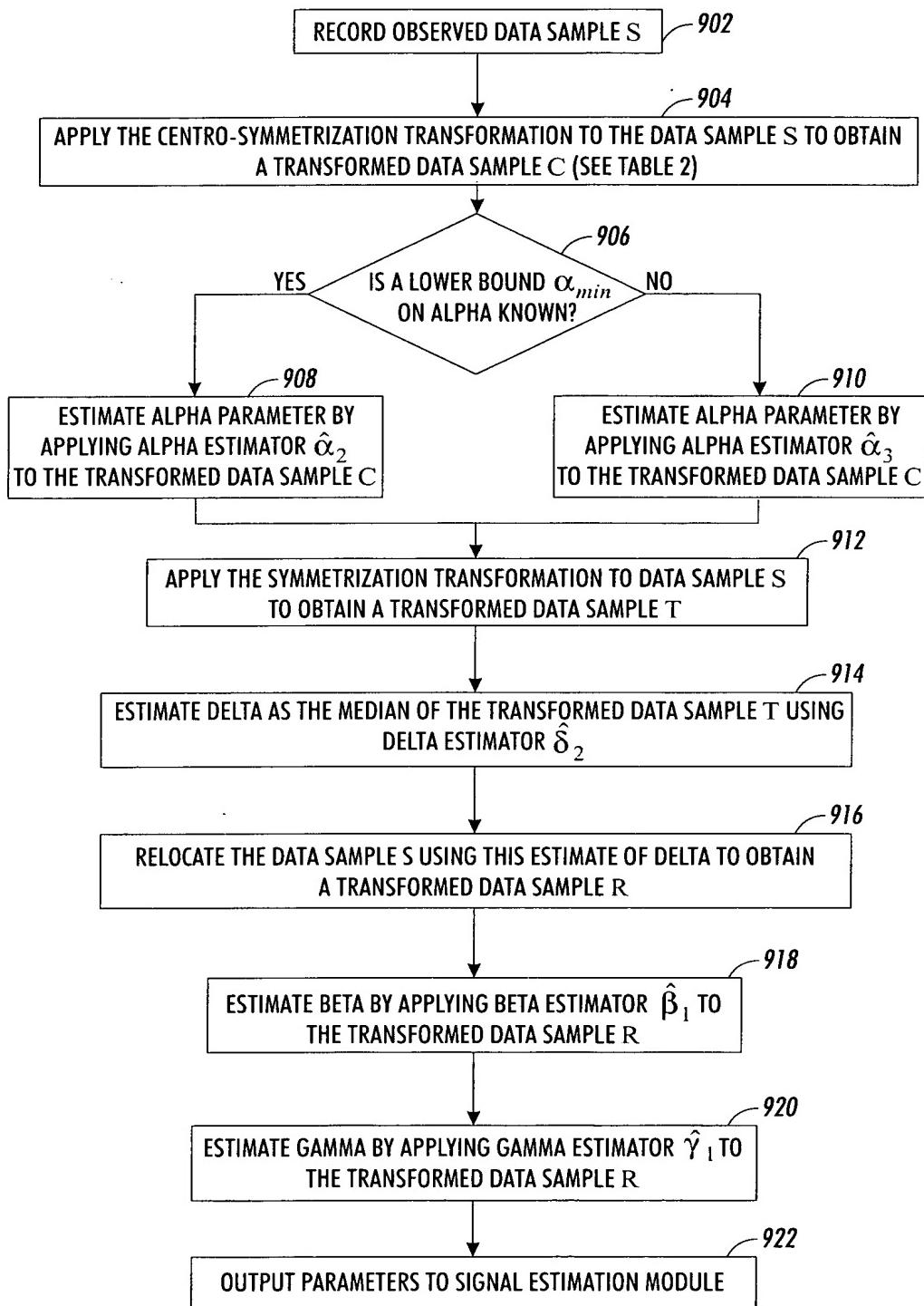


FIG. 9A



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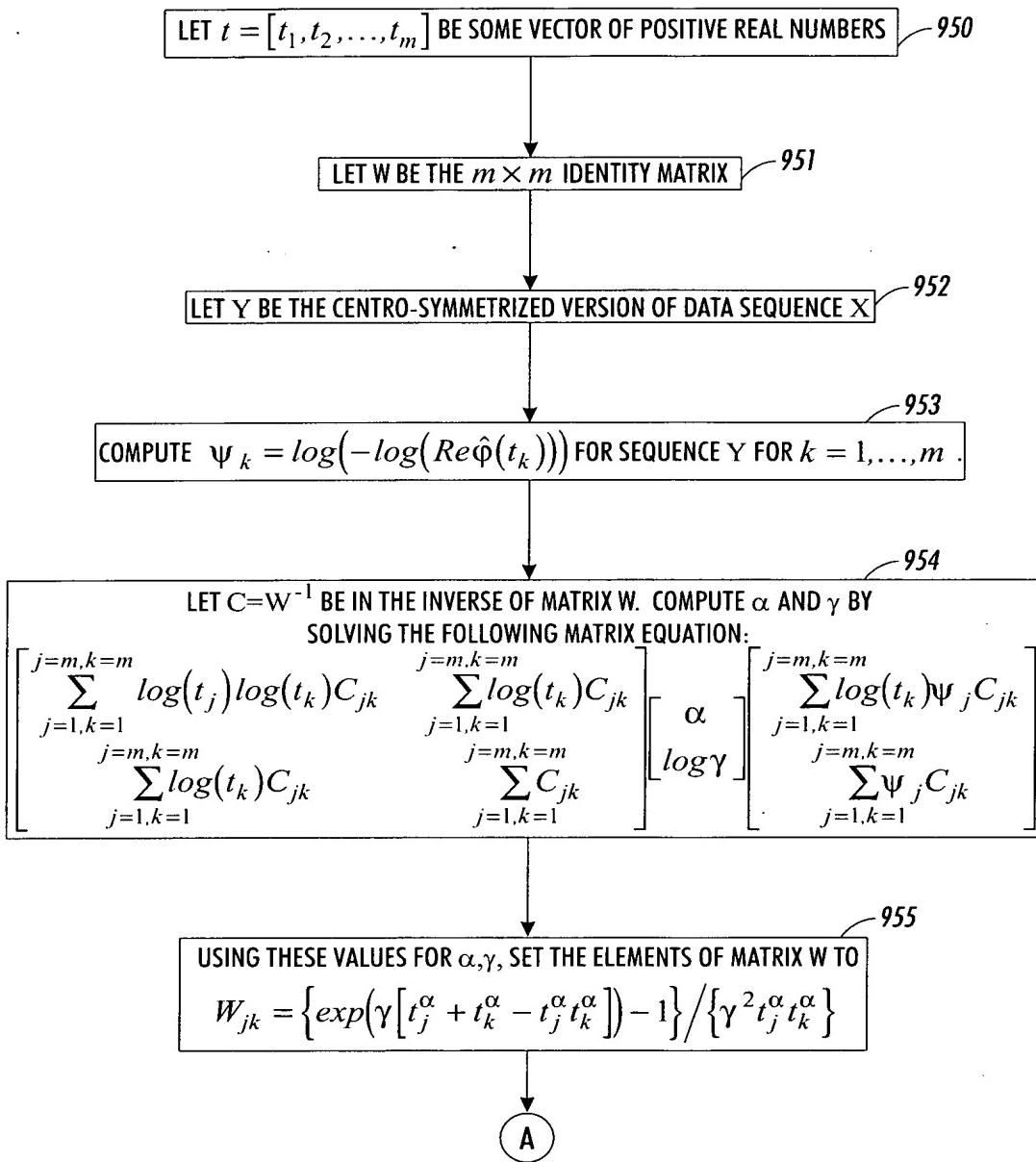


FIG. 9B



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A

REPEAT STEP 954 AND LET THE ESTIMATES OF α, γ EQUAL THE SOLUTION TO THE MATRIX EQUATION → 956COMPUTE $\omega_k = -Im \log(\phi(t_k)) / t_k$ FOR SEQUENCE X FOR $k = 1, \dots, m$ → 957LET W BE THE $m \times m$ IDENTITY MATRIX → 958LET C = W⁻¹ BE IN THE INVERSE OF MATRIX W. COMPUTE β AND δ BY → 959

SOLVING THE FOLLOWING MATRIX EQUATION:

$$\begin{bmatrix} \kappa^2 \sum_{j=1, k=1}^{j=m, k=m} (t_j t_k)^{\alpha-1} C_{jk} \\ \kappa \sum_{j=1, k=1}^{j=m, k=m} t_k^{\alpha-1} C_{jk} \end{bmatrix} \begin{bmatrix} \beta \\ \delta \end{bmatrix} = \begin{bmatrix} \sum_{j=1, k=1}^{j=m, k=m} t_k^{\alpha-1} \omega_j C_{jk} \\ \sum_{j=1, k=1}^{j=m, k=m} \omega_j C_{jk} \end{bmatrix}$$

WHERE $\kappa = \gamma \tan\left(\frac{\alpha\pi}{2}\right)$

→ 960

USING THE COMPUTED VALUES FOR β AND δ , SET THE ELEMENTS OF MATRIX W TO:

$$W_{sr} = \frac{1}{2(R_s^2 + I_s^2)(R_r^2 + I_r^2)t_s t_r} \{ R_{s+r}(I_s I_r - R_s R_r) + R_{s-r}(I_s I_r + R_s R_r) + I_{s+r}(I_s R_r + R_s I_r) + I_{s-r}(I_s R_r - R_s I_r) - 4R_s I_s R_r I_r \}$$

WHERE $R_s = Re(\phi(t_s))$, $I_s = Im(\phi(t_s))$, $R_{s+r} = Re(\phi(t_s + t_r))$, etc. $\phi(t) = \exp\left(-\gamma|t|^{\alpha}\left(1 + j\beta \tan\frac{\alpha\pi}{2}\right) + jt\delta\right)$ REPEAT STEP 960 AND LET THE ESTIMATES OF β, δ EQUAL THE SOLUTION TO THE MATRIX EQUATION → 961

FIG. 9C

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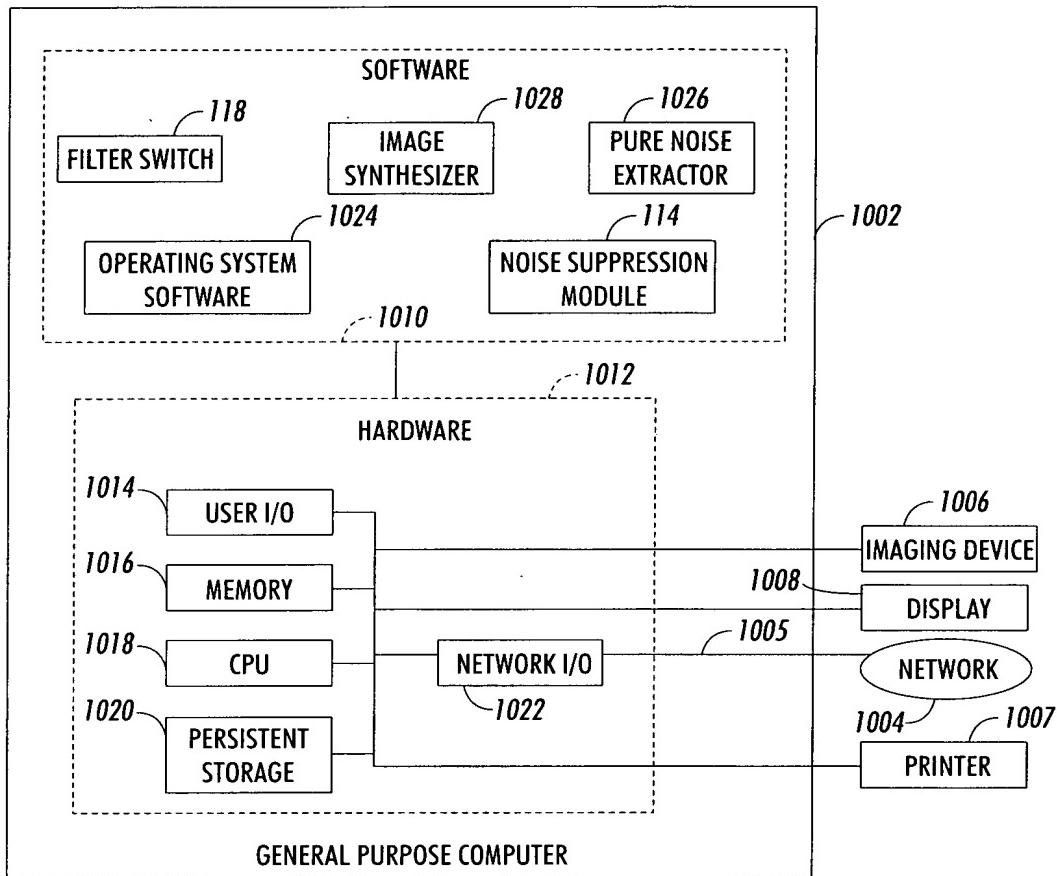


FIG. 10

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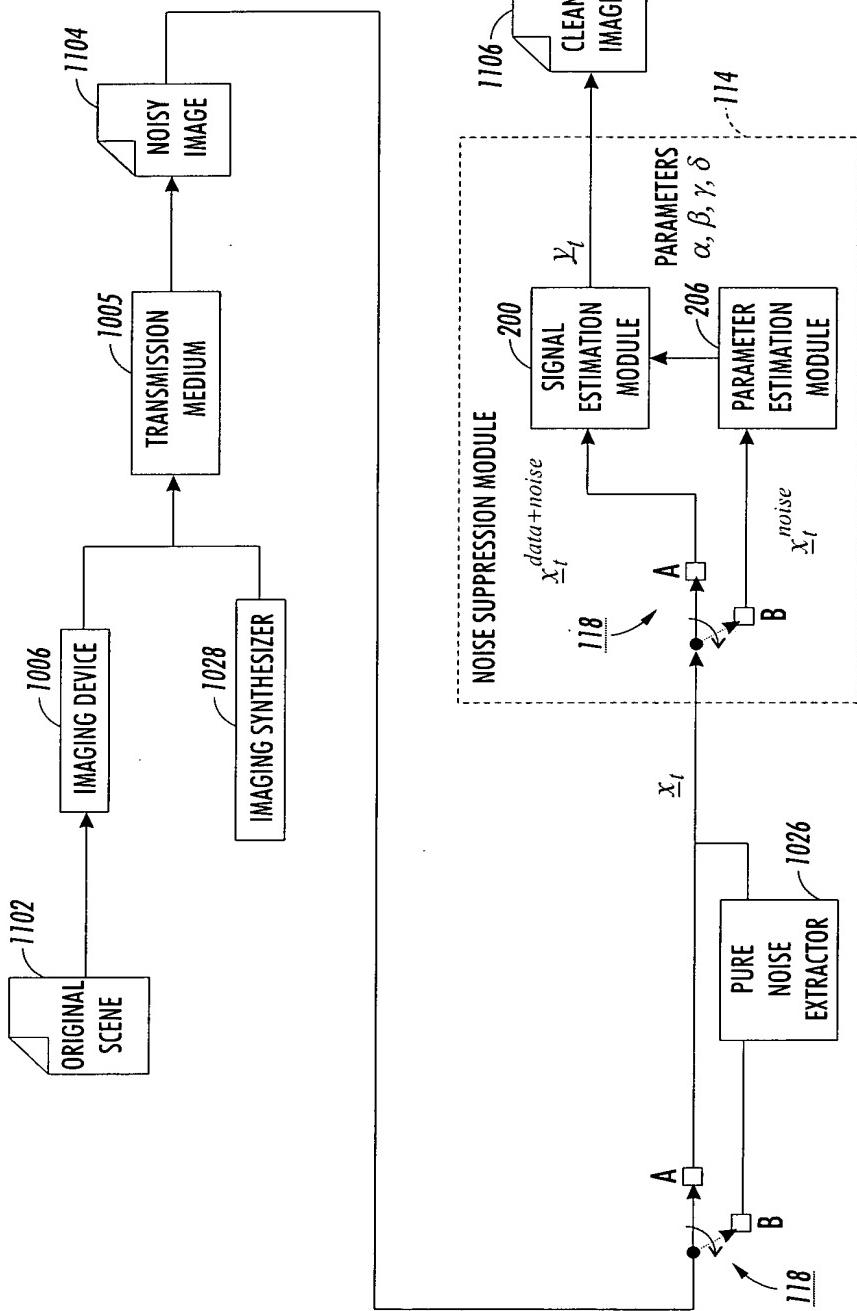


FIG. 11



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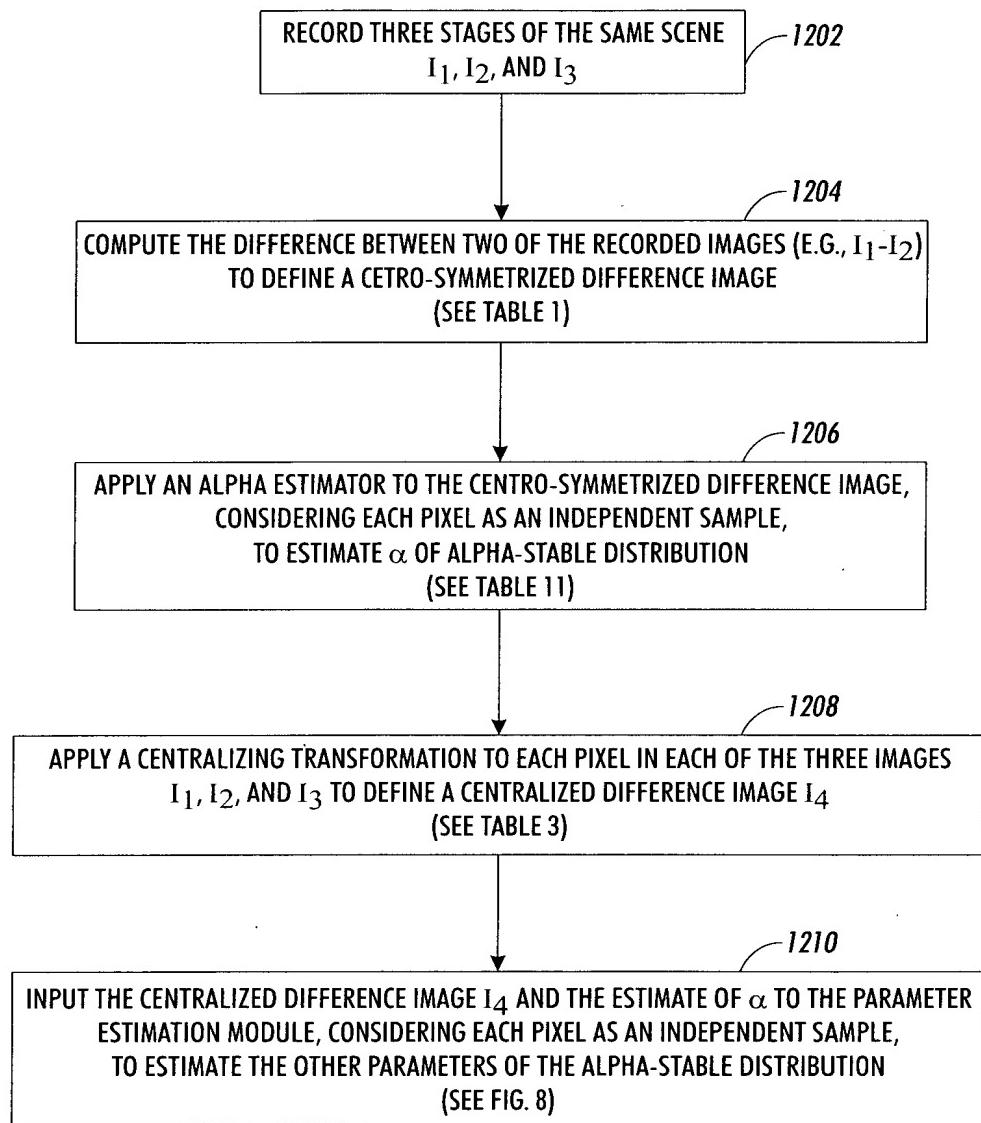


FIG. 12